

ZOOPLANKTON AT THE EAST COAST OF PENINSULAR MALAYSIA

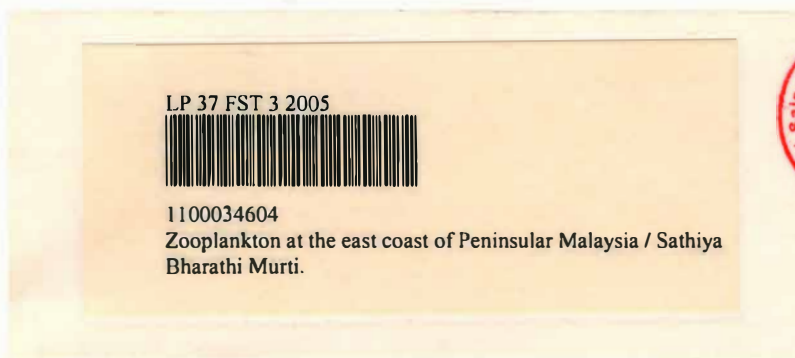
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ZOOPLANKTON AT THE EAST COAST OF PENINSULAR MALAYSIA

By

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**Research Report submitted in partial fulfillment of
The requirements for the degree of
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Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:

Zooplankton at the East Coast of Peninsular Malaysia

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ABSTRACT

A research was conducted to determine the density and distribution of zooplankton in the East Coast of Peninsular Malaysia which include Terengganu, Pahang and Johor coastal areas. Samplings were done three times. Sampling for Terengganu was done from 25th to 29th September 2003 during the Southwest monsoon (SW monsoon). Sampling for Pahang was done in the month of April from 2nd to 8th April 2004. It was during the transitional period after Northeast monsoon (NE monsoon) and lastly for Johor, the sampling was done in the month of October 2004, after the SW monsoon. There are 19 transects and 105 sampling stations all over which include sampling sites near the coastal area of Pahang and Terengganu and Johor. Samples were taken using Kitahara plankton net. Mixture of formaldehyde and borax 5% was used for the fixation. Samples preserved using alcohol 70%. Zooplankton at the coastal area of Terengganu has the highest density, followed by Johor and at last Pahang. This is caused by monsoonal changes, habitat preference by some of the zooplanktons because of the environmental parameters changes, habitat destruction, eutrophication, pollution, human activities, overexploitation and so on. copepods were the dominant species at the East Coast of Peninsular Malaysia. Copepods were followed by cladocera and ostracoda.

ABSTRAK

Satu kajian telah dijalankan untuk menentukan kepadatan dan taburan zooplankton di Pantai Timur Semenanjung Malaysia yang terdiri daripada persisiran pantai Terengganu, Pahang dan Johor. Penyampelan telah dijalankan sebanyak tiga kali. Penyampelan bagi Terengganu telah dijalankan dari 25 hingga 29 September 2003 semasa “southwest monsoon”. Penyampelan bagi Pahang telah dijalankan pada bulan April dari 2 hingga 8 tahun 2004. Ia adalah pada masa tempoh peralihan selepas “northeast monsoon”. Akhirnya, penyampelan bagi Johor pula dijalankan pada bulan Oktober, selepas “southwest monsoon”. Kesemuanya 19 transek dan 105 stesen penyampelan telah ditetapkan pada ketiga-tiga kawasan kajian. Sampel telah diambil menggunakan jaring Kitahara. Campuran formalin dan borax 5% telah digunakan untuk ‘fixation’. Sampel telah diawet menggunakan alkohol 70%. Zooplankton di persisiran pantai Terengganu mempunyai kepadatan yang tertinggi diikuti oleh Johor dan akhirnya Pahang. Taburan dan kepadatan zooplankton sepanjang persisiran pantai Semenanjung Malaysia. Habitat pilihan oleh zooplankton adalah disebabkan oleh perubahan parameter persekitaran, kemusnahan habitat, eutrofikasi, pencemaran, aktiviti-aktiviti manusia, pengeksploitasian berlebihan, dan sebagainya. Kopepoda adalah spesies yang dominant diikuti oleh cladocera dan ostracoda.